



UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rosen et al.

Docket No.: PF112P1D2

Application No.: 10/023,584

Confirmation No.: 4809

Filed: December 21, 2001

Art Unit: 1647

For: Antibodies to Human Vascular Endothelial
Growth Factor 2 (as amended)

Examiner: R. S. Landsman

**SEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of a claim of the subject application, Attorney for Applicants hereby directs the Examiner's attention to references GI-GK listed on the attached Form PTO/SB/08. Copies of the references are enclosed.

Identification of the listed references is not to be construed as an admission of any individual associated with the filing or prosecution of the subject application that such references are available as "prior art" against the subject application. Furthermore, Applicants do not waive any rights to take appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the subject application.

The above information is presented so that the Patent and Trademark Office can determine any materiality thereof to the claimed invention. See 37 CFR 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be considered during the prosecution of this application.

Applicants respectfully request that the Examiner review the listed references and that the references be made of record in the file history of the application.

10/06/2004 RFEKADU1 00000076 083425 10023584

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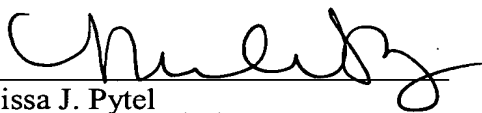
180.00 DA

Pursuant to 37 C.F.R. § 1.97(c), because this Information Disclosure Statement is being submitted after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Office Action, or a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution, the Patent and Trademark Office will consider this Information Disclosure Statement if it is accompanied by the fee as specified in 37 C.F.R. § 1.17(p).

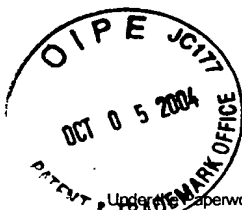
Accordingly, the Patent & Trademark Office is hereby authorized to charge our Deposit Account No. 08-3425 in the amount of \$180.00 as payment of the required fee, as itemized on the Fee Transmittal Sheet submitted concurrently herewith. The Patent & Trademark Office is also authorized to charge any additional required fee or credit any overpayment in connection with this submission to our Deposit Account No. 08-3425.

Dated: Oct 5, 2004

Respectfully submitted,

By 
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PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/023,584-Conf. #4809
				Filing Date	December 21, 2001
				First Named Inventor	Craig A. Rosen
				Art Unit	1647
				Examiner Name	R. S. Landsman
Sheet	1	of	1	Attorney Docket Number	PF112P1P1D2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	GI	JOOSTEN et al., "The production of antibody fragments and antibody fusion proteins by yeasts and filamentous fungi," <i>Microbial Cell Factories</i> 2:1 (Jan. 30, 2003).	
	GJ	SKERRA et al., "Assembly of a functional immunoglobulin Fv fragment in <i>Escherichia coli</i> ," <i>Science</i> 240(4855):1038-1041 (May 20, 1988) (abstract only).	
	GK	CHANG et al., "Escherichia coli secretion of an active chimeric antibody fragment," <i>Science</i> 240(4855):1041-1043 (May 20, 1988) (abstract only).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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IPW 1647 \$

*** Please note request to charge additional fees during the pendency of the application.

IN LIEU OF PTO/SB/17 (10-03)

FEE TRANSMITTAL for FY 2004 <small>Effective 10/01/2003. Patent fees are subject to annual revision.</small>		Complete if Known		
		Application Number	10/023,584-Conf. #4809	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	December 21, 2001	
		First Named Inventor	Craig A. Rosen	
		Examiner Name	R. S. Landsman	
TOTAL AMOUNT OF PAYMENT (\$)		180.00	Attorney Docket No.	PF112P1D2
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)		
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None		3. ADDITIONAL FEES		
<input checked="" type="checkbox"/> Deposit Account: Deposit Account Number: 08-3425 Deposit Account Name: Human Genome Sciences, Inc.		Large Entity Small Entity		
The Director is authorized to: (check all that apply)		Fee Code Fee (\$) Fee Code Fee (\$) Fee Description Fee Paid		
<input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments		1051 130 2051 65 Surcharge - late filing fee or oath		
<input checked="" type="checkbox"/> Charge any additional fee(s) or any underpayment of fee(s)		1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet.		
<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1053 130 1053 130 Non-English specification		
<input checked="" type="checkbox"/> *** Charge any additional fee(s) during the pendency of the application		1812 2,520 1812 2,520 For filing a request for ex parte reexamination		
FEE CALCULATION		1804 920* 1804 920* Requesting publication of SIR prior to Examiner action		
1. BASIC FILING FEE		1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action		
Large Entity Small Entity		1251 110 2251 55 Extension for reply within first month		
Fee Code Fee (\$)	Fee Code Fee (\$)	1252 420 2252 210 Extension for reply within second month		
1001 770 2001 385	Utility filing fee	1253 950 2253 475 Extension for reply within third month		
1002 340 2002 170	Design filing fee	1254 1,480 2254 740 Extension for reply within fourth month		
1003 530 2003 265	Plant filing fee	1255 2,010 2255 1,005 Extension for reply within fifth month		
1004 770 2004 385	Reissue filing fee	1401 330 2401 165 Notice of Appeal		
1005 160 2005 80	Provisional filing fee	1402 330 2402 165 Filing a brief in support of an appeal		
SUBTOTAL (1) (\$) 0.00		1403 290 2403 145 Request for oral hearing		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1451 1,510 1451 1,510 Petition to institute a public use proceeding		
Total Claims -20** =		1452 110 2452 55 Petition to revive - unavoidable		
Independent Claims -3** =		1453 1,330 2453 665 Petition to revive - unintentional		
Multiple Dependent		1501 1,330 2501 665 Utility issue fee (or reissue)		
Large Entity Small Entity		1502 480 2502 240 Design issue fee		
Fee Code Fee (\$)	Fee Code Fee (\$)	1503 640 2503 320 Plant issue fee		
1202 18 2202 9	Claims in excess of 20	1460 130 1460 130 Petitions to the Commissioner		
1201 86 2201 43	Independent claims in excess of 3	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)		
1203 290 2203 145	Multiple dependent claim, if not paid	1806 180 1806 180 Submission of Information Disclosure Stmt		
1204 86 2204 43	** Reissue independent claims over original patent	8021 40 8021 40 Recording each patent assignment per property (times number of properties)		
1205 18 2205 9	** Reissue claims in excess of 20 and over original patent	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))		
SUBTOTAL (2) (\$) 0.00		1810 770 2810 385 For each additional invention to be examined (37CFR 1.129(b))		
**or number previously paid, if greater; For Reissues, see above		1801 770 2801 385 Request for Continued Examination (RCE)		
SUBMITTED BY		SUBTOTAL (3) (\$) 180.00		
Name (Print/Type) Melissa J. Pytel		*Reduced by Basic Filing Fee Paid		
Registration No. (Attorney/Agent) 41,512		Telephone (301) 610-5764		
Signature		Date 10/5/04		